

19980627.qrp v01_n135.qrs.980627

Date: Sat, 27 Jun 1998 19:03:06 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1135

QRP-L Digest 1135

Topics covered in this issue include:

- 1) [13909] Radio Communication Call <MUST READ!>
by Chuck and Michele Snyder <csnyder@nextdim.com>
- 2) [13910] FD SOLAR REPORT
by Paul Harden <pharden@aoc.nrao.edu>
- 3) [13911] Re: Radio Communication Call <MUST READ!>
by Roger Hightower <n7kt@earthlink.net>
- 4) [13912] RS-232 cable (not qrp but....)
by "Jay Heffner" <cjayheff@erols.com>
- 5) [13913] Re: RS-232 cable (not qrp but....)
by "John J. McDonough" <jjmcd@mdn.net>
- 6) [13914] Re: SOLAR Uses for QRP?
by Jim <kj5tf@madisoncounty.net>
- 7) [13915] Re: RS-232 cable (not qrp but....)
by "John J. McDonough" <jjmcd@mdn.net>
- 8) [13916] RE: SOLAR Uses for QRP?
by Tracy@bytemark.com (Tracy)
- 9) [13917] Field Day "Watch for" -- K9WM (2A IL)
by kb9iua@juno.com (Kevin L Anderson)
- 10) [13918] Re: Radio Communication Call <MUST READ!>
by hsilver@pyx.net
- 11) [13919] BULLETIN: Scientists lose contact with the SOHO Spacecraft
by Jack Parker <Pparker@greatbasin.net>
- 12) [13920] Re: Radio Communication Call <MUST READ!>
by Chuck and Michele Snyder <csnyder@nextdim.com>
- 13) [13921] Parts Reference
by n4so@juno.com (charles k brown)
- 14) [13922] ARRL TIS Find
by n4so@juno.com (charles k brown)
- 15) [13923] W7LS @ KC7LFX for FD on 160
by W7LS <w7ls@blarg.net>
- 16) [13924] Re: RS-232 cable (not qrp but....)
by bob evinger <revinger@marshallonline.com>
- 17) [13925] Re: linear
by "Ed Pacyna" <pacyna@worldnet.att.net>
- 18) [13926] "A" core?
by Bob Liesenfeld <wb0poq@visi.com>
- 19) [13927] Re: RS-232 cable (not qrp but....)

- by n5inz@juno.com (John M Andrews)
- 20) [13928] Re: RS-232 cable (not qrp but....)
by "George T. Baker" <w5yr@swbell.net>
- 21) [13929] Central CA QRPicnic in 2 weeks
by Vic Rosenthal <rakefet@rakefet.com>
- 22) [13930] Re AADE filter software
by mike czuhajewski <wa8mcq@abs.net>
- 23) [13931] Wireless World
by Alan Lake <RadKit@compuserve.com>
- 24) [13932] Sierra Mods?
by radioray@juno.com (Raymond E Tougas)
- 25) [13933] Reciprocal in Japan?
by radioray@juno.com (Raymond E Tougas)
- 26) [13934] SW40+ on 6V
by Steven Weber <kd1jv@moose.ncia.net>
- 27) [13935] GM-10 Owners
by AA3BP@aol.com
- 28) [13936] Mipela go long biktaim wakabout . . . another momentary disappearance
by nilsbull@juno.com (Nils R Young)

Date: Fri, 26 Jun 1998 16:36:11 -0700
From: Chuck and Michele Snyder <csnyder@nextdim.com>
To: QRP <qrp-1@Lehigh.EDU>
Subject: [13909] Radio Communication Call <MUST READ!>
Message-ID: <3594306B.944B57F2@nextdim.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

I haven't posted in a while. Here's something somewhat radio related that actually happened. A friend from Seattle, WA, sent it to me. Enjoy!

This is the transcript of an ACTUAL radio conversation of a US naval ship with Canadian authorities off the coast of Newfoundland in October, 1995.
(Associated Press, 1996)

Radio conversation released by the Chief of Naval Operation 10-10-95.

Americans: Please divert your course 15 degrees to the North to

avoid a collision.

Canadians: Recommend you divert YOUR course 15 degrees to the South to avoid a collision.

Americans: This is the Captain of a US Navy ship. I say again, divert YOUR course.

Canadians: No. I say again, you divert YOUR course.

Americans: THIS IS THE AIRCRAFT CARRIER USS LINCOLN, THE SECOND LARGEST SHIP IN THE UNITED STATES' ATLANTIC FLEET. WE ARE ACCOMPANIED BY THREE DESTROYERS, THREE CRUISERS AND NUMEROUS SUPPORT VESSELS. I DEMAND THAT YOU CHANGE YOUR COURSE 15 DEGREES NORTH, THAT'S ONE FIVE DEGREES NORTH, OR COUNTER-MEASURES WILL BE UNDERTAKEN TO ENSURE THE SAFETY OF THIS SHIP.

Canadians: This is a lighthouse. It's your call.

--

Chuck Snyder 73s de KD7BBF

<http://www.nextdim.com/users/csnyder/index.htm>

QRP-L #1462

Spokane, WA

Date: Fri, 26 Jun 1998 17:55:57 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Subject: [13910] FD SOLAR REPORT
Message-ID: <Pine.SOL.3.91.980626171109.23616A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For those who don't want to read the whole thing, here's
THE QUICK SUMMARY:

A geomagnetic storm is in progress (A-index = 36) for reasons not entirely clear, but nothing that will cause it's continuance. It will settle down overnight and be fairly decent tomorrow for an A-index of 15 on Saturday and less by Sunday.

Solar flux is fairly high at 106.

JUST FOR COMPARISON ...

Solar Flux 90-day mean A-index Sunspot # Global MUF

FD 1996	68	69	4	23	13MHz
FD 1997	68	72	10	11	13MHz
FD 1998	106	107	8-15	84	14MHz

Todays DAYTIME MUF so far has ranged from 18-23 MHz.

So please, don't let all the warnings about the current geomagnetic storm scare you off. Conditions are still better than the last 2 years, with the upper bands bound to be very active. Look at what the solar flux has done since 1996-97!

The LONG version ...

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 177 ISSUED AT 2200Z ON 26 JUN 1998

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100Z TO 26/2100Z: SOLAR ACTIVITY WAS LOW. A C6/SF AT 25/2107Z FROM REGION 8253 (N17E26) WAS THE HIGHLIGHT OF AN OTHERWISE QUIET DAY. TWO NEW REGIONS WERE NUMBERED, 8257 (N29W19) AND 8258 (S14E64), MAKING A TOTAL OF SIX SPOTTED REGIONS ON THE DISK.

The C6 flare event will not effect Field Day. Any disturbance to the magnetic field is 2-3 days away. (A C6 is not a big flare).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD WAS AT MAJOR TO SEVERE STORM LEVELS DURING THE PAST 24 HOURS. A CORONAL MASS EJECTION WAS SEEN TO PASS THE ACE SPACECRAFT BEGINNING AT APPROXIMATELY 25/1600Z. THE LATTER HALF OF THE EVENT EXHIBITED STRONG, PROLONGED, SOUTHWARD MAGNETIC FIELDS FROM 25/2200Z TO 26/0600Z.

Earlier, magnetic field lines were orientated for a northward flow (as measured by spacecraft relative to earths poles), thus, it has changed direction, meaning we have passed through the event. As the direction of the field lines change direction, it disturbs our magnetic field. Since it has already changed directions, no further disturbances FROM THIS EVENT can be expected.

THE SOLAR SOURCE OF THIS EJECTA IS LIKELY EITHER FROM ACTIVITY OCCURRING ON JUNE 20, OR JUNE 22.

As I pointed out in my comments earlier today, the exact cause of todays major geomagnetic storm is not known and pending further data. This further data evidently did not add much further insight as to the cause,

evidenced by the official "likelihood" statement above. The point is, it was NOT from a major solar event, but some "single" event, so there is nothing to add further fuel to this disturbance. Our magnetic field is currently disturbed, with likely nothing else to bother it, so we just need to wait and let it settle down, which usually takes less than 24 hours. By tomorrow, it will be the remnants of all of this, for which the official forecast is for "unsettled to active." (see below)

THE DISTURBANCE WEAKENED DURING THE SECOND HALF
OF THE PERIOD, GIVING WAY TO QUIET TO UNSETTLED CONDITIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE PRIMARILY UNSETTLED, WITH PERIODS OF ACTIVE
CONDITIONS POSSIBLE DURING LOCAL NIGHTTIMES, FOR THE NEXT 24 HOURS.
QUIET TO UNSETTLED CONDITIONS SHOULD PREVAIL BY THE END OF THE
INTERVAL.

PCAF GREEN <----- NO Polar Cap Absorption Event.
The above geomagnetic forecast of unsettled
to active is for mid to low latitudes. It will
linger a bit longer in the higher latitudes,
-----> Like for Jim AL7FS !!! But with no polar cap
absorption in progress, once it settles down in
Alaska, things should be good. My guess would
be mid-afternoon on Saturday for KL7 land.

IV. PENTICTON 10.7 CM FLUX

OBSERVED 26 JUN 109 <----- NOT BAD !!!
PREDICTED 27 JUN-29 JUN 110/115/115
^^^ ^^ ^^^
Sat Sun Mon

90 DAY MEAN 26 JUN 107

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 JUN 010/010
ESTIMATED AFR/AP 26 JUN 035/045 <----- This is the CURRENT A-INDEX.
The geomagnetic storm peaked at 35
for smoothed global value. It is
now dropping for an estimated value
of 15 and less for Field Day

PREDICTED AFR/AP 27 JUN-29 JUN 015/015-005/008-005/008
^^^ ^^ ^^^
Sat Sun Mon

VI. GEOMAGNETIC ACTIVITY PROBABILITIES 27 JUN-29 JUN

A. MIDDLE LATITUDES

ACTIVE	30/10/10	<-----	For saturday, a 30% chance of active
MINOR STORM	15/05/05		conditions, most of U.S./southern VE

B. HIGH LATITUDES

ACTIVE	40/25/20	<-----	And a little higher for Jim and
MINOR STORM	20/10/05		for the VE's above about 55 deg.
MAJOR-SEVERE STORM	05/01/01		

Personally, I just don't think this will be a big toot for Field Day, except for those in the higher latitudes. Don't let it discourage you from participating in FD. As you well know, there are ALWAYS an ample number of stations to work (some call it "too many" -hi). The fact that the solar wind is now 400 km/sec. and dropping is approaching normal levels, and the magnetic reversal that could cause further geomagnetic storming has already occurred. Let it settle down overnight ... all the excess electrons causing all the noise will migrate from North America and dump on KL7 tomorrow ... sorry Jim :-) then dissipate for them later on saturday.

GL, Paul NA5N
National Radio Astronomy Observatory
Socorro, New Mexico

Date: Fri, 26 Jun 1998 17:43:43 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: csnyder@nextdim.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [13911] Re: Radio Communication Call <MUST READ!>
Message-ID: <3593DDCF.96B371F5@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Nonsense. The Lincoln arrived in here West Coast homeport on Oct 11, 1995 after a normal Western Pacific cruise, and remained in port there through the month of November 1995.

Nowhere near Newfoundland, and nowhere near the truth.

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ
"The problem with doing nothing is not knowing when you're finished"
(Nelson DeMille)

Date: Fri, 26 Jun 1998 18:26:06 -0400
From: "Jay Heffner" <cjayheff@erols.com>
To: <qrp-1@Lehigh.EDU>
Subject: [13912] RS-232 cable (not qrp but....)
Message-ID: <01bda151\$68e51b30\$336daccf@scs-micron1.eng.usps.gov>
MIME-Version: 1.0
Content-Type: multipart/alternative;
 boundary="-----_NextPart_000_000E_01BDA12F.E1D37B30"

This is a multi-part message in MIME format.

-----=_NextPart_000_000E_01BDA12F.E1D37B30
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Does anyone know what the wiring on the RS-232 cables should be for =
wiring the pc up to a PK-232 TNC? I can't find any info. TNX in =
advance.

73/72,
Craig, KF4NYZ

-----=_NextPart_000_000E_01BDA12F.E1D37B30
Content-Type: text/html;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
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<HEAD>

<META content=3Dtext/html; charset=3Diso-8859-1 =
http-equiv=3DContent-Type>
<META content=3D'"MSHTML 4.71.1712.3"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>Does anyone know what the wiring on =
the RS-232=20
cables should be for wiring the pc up to a PK-232 TNC? I can't find any =
info.=20
TNX in advance.</DIV>
<DIV> </DIV>
<DIV>73/72,</DIV>
<DIV>Craig, =

KF4NYZ</DIV></BODY></HTML>

-----=_NextPart_000_000E_01BDA12F.E1D37B30--

Date: Fri, 26 Jun 1998 22:44:23 -0400
From: "John J. McDonough" <jjmcd@mdn.net>
To: <cjayheff@erols.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [13913] Re: RS-232 cable (not qrp but....)
Message-ID: <199806270230.3446600@midland2.mdn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Jay Heffner <cjayheff@erols.com>; owner-qrp-l@Lehigh.EDU
>

> Does anyone know what the wiring on the RS-232 cables should be for
wiring the pc up

For RS-232, there are really only 2 choices for wiring ANYTHING up - either
the thing you're connecting thinks it's a modem, or it thinks it's a
computer. If it thinks it's a modem (as should be the case for the TNC)
simply connect the DB25's straight through. The only relevant lines
(almost ever) are:

1,2,3,4,5,6,7,8,20,22

If the thing thinks it's a computer (should not be the case) swap 2-3 and
4-5. Once in a rare while it's also useful to swap 8 and 20, but I haven't
seen this on any recent equipment.

Chances are, you want to connect to COM1, which is frequently a DB9 on a
PC, instead of the standard DB25. There are 2 ways to deal with this ...
what I do is have several store bought MODEM (not NULL MODEM) 9 to 25 pin
cables so I don't have to learn the pinout of the DB9. But, if you don't
like any extra cables - here's the correspondence (from the AT Tech
Reference - a really ancient book):

DB9	DB25	
1	8	Data Carrier Detect
2	3	Receive data
3	2	Transmit data
4	20	Data Terminal Ready
5	7	Signal Ground
6	6	Data Set Ready

7	4	Request to Send
8	5	Clear to Send
9	22	Ring Indicator

Although in theory, you should be able to get away with 2,3 and 7 (on the DB25), lots of PC software looks at some of the other pins. I've never seen it with PC software, but some mini software sometimes expects things to happen in the right order (e.g. Ring Indicator goes true, then data carrier detect, then clear to send.)

Hope this helps
72/73 de WB8RCR
dldleydadidah

Date: Fri, 26 Jun 1998 20:27:55 -0500
From: Jim <kj5tf@madisoncounty.net>
To: qrp-1@Lehigh.EDU
Subject: [13914] Re: SOLAR Uses for QRP?
Message-ID: <35944A9B.161F@madisoncounty.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dennis, good questions you ask. For backbacking you've sized yourself into really fun and interesting part of QRP. I'd recommend carrying one or two of the small solar panels like they sell at JC Whitney and other catalogs for keeping car btrys charged when there parked awhile. They are small enuf to carry and two can be wired together for double charge.

If thats not enuf, there are 5w solar panels available for under \$100.

Also its ez to find surplus catalogs that sell AA nicad btry paks of 1AH and 1.6AH size 12v. Carry at least two of these and you should be fine. I spent \$10. apiece.

A QRP rig that would go well with this setup might be a 2w Green Mountain, or SST, something like that. You could run a full 5 watts, (full 5 gallons) :) but its not totally necessary if band condx are good.

Have fun! and keep it lite, de Jim

Date: Fri, 26 Jun 1998 22:50:42 -0400
From: "John J. McDonough" <jjmcd@mdn.net>
To: <cjayheff@erols.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [13915] Re: RS-232 cable (not qrp but....)
Message-ID: <199806270234.3447800@midland2.mdn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Jay Heffner <cjayheff@erols.com>; owner-qrp-l@Lehigh.EDU

In my previous post, I left to the conclusion you want to build a cable, since I would always make it rather than buy it. Any standard PC MODEM cable should work if you would rather spend than build. And frankly, if you have to go to Radio Shack for the connectors, the cable is likely to be cheaper. Also, those DB25's are a pain to solder to. (On the other hand, I recently pick up a supply of DB25's cheap - I think it was from Dan's, maybe Mendelson.)

72/73 de WB8RCR
dldleydadidah

Date: Fri, 26 Jun 1998 22:03:18 -0400
From: Tracy@bytemark.com (Tracy)
To: "QRP-L" <qrp-l@Lehigh.EDU>, <n4dd@preferred.com>
Subject: [13916] RE: SOLAR Uses for QRP?
Message-ID: <000201bda16f\$c1064fa0\$0cffff0a@titan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think Tracy (not me!) at RT Systems in Huntsville, AL. has a great setup for backpack solar and for the serious solar shack. I was impressed. Yeah, they sell our parts too but I have nothing to do with the solar stuff ...

You can reach RT Systems at
800 723-6922

Tracy Markham, N4LGH #1453
ByteMark / Amidon

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Dennis Brickley

Sent: Friday, June 26, 1998 6:11 PM

To: Low Power Amateur Radio Discussion

Subject: SOLAR Uses for QRP?

Thanks for your time, I will be the first to say that I am at a loss for any knowledge on the subject of solar energy except for the concept. I hear of people running their equipment via solar energy and I would like to know step by step how to adapt solar power to my own backpacking station. Such info as, do I need to carry a battery to the field and run the solar panel into the battery and the equipment from the battery? How do I determine the specifications of the panel/s that I would need to make my station operational? Like I said, I am not fluent on the subject so oversimplicity here is not a danger. Bottom line, I want to run the qrp equipment on backpacking expeditions where carrying a marine battery is impossible....I would appreciate any info, Thanks de Dennis/N4DD

Date: Fri, 26 Jun 1998 22:05:22 EDT
From: kb9iua@juno.com (Kevin L Anderson)
To: qrp-1@Lehigh.EDU
Subject: [13917] Field Day "Watch for" -- K9WM (2A IL)
Message-ID: <19980626.211730.6903.0.kb9iua@juno.com>

While we won't be QRP, two avid list members and low power folks will be operating as part of the K9WM Green River Valley ARS (Illinois) Field Day. Both Pete, NN9K (QRP-L #5) and me, KB9IUA (QRP-L #384), will be on CW in this 2A IL event, operating with a IC 735 vanilla power to a caged dipole that Pete built. I'll try to standby and throw an extra TU or 72 to each Q station I work when I'm at the controls.

BTW, the Green River Valley ARS is a small contesting club with a very specific mission of training new contestors (such as me :-). Among our ranks of a dozen or so members is a First-Class Operator Club (FOC) member, K9WA, which is a rare privilege in my book (uhhhh!).

Enjoy the "contest" (Hot! temperatures here in Illinois).

Cheers/73. Kevin, KB9IUA

(p.s. I got the letter this week that said I've been approved for the Illinois personalized car license plate, "QRP 7040"!)

Kevin Anderson, KB9IUA, Rock Island IL USA

kb9iua@juno.com or Kevin.L.Anderson@usace.army.mil

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 26 Jun 1998 22:14:12 -0400 (EDT)

From: hsilver@pyx.net

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [13918] Re: Radio Communication Call <MUST READ!>

Message-ID: <Pine.LNX.3.95.980626221125.16520A-100000@matrix.pyx.net>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 26 Jun 1998, Chuck and Michele Snyder wrote:

> Here's something somewhat radio related that actually happened.

Hate to burst your bubble but, this one has been around a lot since around 1994 or so and I seem to recall it was between natural rivals England and France. Methinks its good humor, or was.

Harley Silver

Toronto

Date: Fri, 26 Jun 1998 20:53:51 -0700

From: Jack Parker <Pparker@greatbasin.net>

To: qrp-l@Lehigh.EDU

Subject: [13919] BULLETIN: Scientists lose contact with the SOHO Spacecraft

Message-ID: <3.0.1.32.19980626205351.00699984@mail.greatbasin.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Forwarded to the list:

Perhaps NA5N can let us know if this will impact predictions relative to terrestrial propagation. It's been a tough month for satellites...first Galaxy 4 and now SOHO!

Jack, W7PW

>From: Cary Oler <oler@holly.cc.uleth.ca>
>Subject: BULLETIN: Scientists lose contact with the SOHO Spacecraft
>To: j@parker.reno.nv.us
>Date: Fri, 26 Jun 1998 18:14:05 -0600 (MDT)
>
>We are issuing the following bulletin as it could have a considerable impact on
>space weather operations and forecasting.
>
>Loss of Contact with the SOHO spacecraft
> (adapted from SOHO-News)
>
>26 June 1998. At 01:16 Paris time on 25 June 1998 (23:16 GMT 24 June),
>during routine maintenance operations, ground controllers lost contact with
>the SOHO (Solar and Heliospheric Observatory) spacecraft and the satellite
>went into Emergency Sun Reacquisition (ESR) mode. The ESR mode is activated
>when an anomaly occurs and the spacecraft loses its orientation towards the
>Sun. When this happens, the spacecraft automatically tries to point itself
>towards the Sun again by firing its attitude control thrusters under the
>guidance of an onboard Sun sensor.
>
>Efforts to re-establish nominal operations did not succeed and telemetry was
>lost. Subsequent attempts using the full NASA Deep Space Network
>capabilities have so far been unsuccessful.
>
>ESA and NASA engineers are continuing with the task of re-establishing
>contact with the spacecraft.
>
>The SOHO mission is a joint undertaking of ESA and NASA. The spacecraft was
>launched aboard an Atlas II rocket from Florida on 2 December 1995 from the
>Cape Canaveral Air Station. Mission operations are directed from the control
>center at NASA Goddard Space Flight Center in Maryland, USA.
>
>In April 1998 SOHO successfully completed its nominal two-year mission to
>study the Sun's atmosphere, surface and interior. Major science highlights
>include:

>
> * the detection of rivers of plasma beneath the surface of the Sun;
> * the discovery of a magnetic 'carpet' on the solar surface that seems
> to account for a substantial part of the energy that is needed to cause
> the very high temperatures of the corona, the Sun's outermost layer;
> * the first detection of flare-induced solar quakes;
> * the discovery of more than 50 sungrazing comets;
> * the most detailed view to date of the solar atmosphere;
> * spectacular images and movies of Coronal Mass Ejections, which are
> being used to improve the ability to forecast space weather.

>
> ----- End -----
>

>STD:

>
>The (hopefully temporary) loss of contact with this spacecraft could have a
>considerable impact on space weather forecasting. Until now, space weather
>forecasters have relied very heavily on the suite of instruments available
>from
>SOHO to determine where solar energetic events such as solar flares
>occurred on
>the Sun when ground-based observations were not possible. They also
>relied on
>this spacecraft very heavily to help determine whether coronal mass ejections
>from the Sun were Earth-directed. The loss of acquisition with this
>spacecraft
>could mean forecasters might have to resort to much less accurate methods of
>determining whether coronal mass ejections occurred. The accuracy of
>forecasts
>is likely to drop correspondingly unless the spacecraft can be reacquired.

>
>
>** End of Bulletin **
>
>

Date: Fri, 26 Jun 1998 21:50:01 -0700
From: Chuck and Michele Snyder <csnyder@nextdim.com>
To: hsilver@pyx.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [13920] Re: Radio Communication Call <MUST READ!>
Message-ID: <359479F9.9B700D0@nextdim.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yes, I'm sure it's been around...an old hat, but some haven't seen it. I didn't prior to reading it.

Have a nice 4'th of July everyone!

Tomorrow I'm going up to Mt.Spokane to see what all this Field Day stuff is all about. Never been to a Field Day, so this'll be my first.

Have a nice weekend all!

hsilver@pyx.net wrote:

> On Fri, 26 Jun 1998, Chuck and Michele Snyder wrote:
>
> > Here's something somewhat radio related that actually happened.
>
> Hate to burst your bubble but, this on has been around a lot
> since around 1994 or so and I seem to recall it was between
> natural rivals England and France. Methinks its good humor,
> or was.
>
> Harley Silver
> Toronto

--

Chuck Snyder 73s de KD7BBF
<http://www.nextdim.com/users/csnyder/index.htm>
QRP-L #1462
Spokane, WA

Date: Sat, 27 Jun 1998 02:27:49 EDT
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [13921] Parts Reference
Message-ID: <19980626.132623.6775.16.n4so@juno.com>

For an electronics parts reference guide I use
Allied Electronics catalog-- 1 800 433-5700.
<http://www.allied.avnet.com>

I also keep Mouser, Digi-key, Newark and some smaller catalogs as reference and comparison.

The cost is free.

Ken Brown, N4SO
QTH nr Mobile, AL/ EM50tk
qrp-1 #622
n4so@juno.com

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Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 27 Jun 1998 02:27:49 EDT
From: n4so@juno.com (charles k brown)
To: qrp-1@Lehigh.EDU
Subject: [13922] ARRL TIS Find
Message-ID: <19980626.132623.6775.15.n4so@juno.com>

Technical Information Service Find or
TISFIND

This software is a company database of over 900 electronic related companies.

You can do a search for a product and (if found) listed are company addresses and phone numbers--

Source was the 1996 ARRL Handbook companion diskette in the back pocket.

Ken Brown, N4SO
QTH nr Mobile, AL/ EM50tk
qrp-1 #622
n4so@juno.com

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Date: Sat, 27 Jun 1998 01:13:17 -0700
From: W7LS <w7ls@blarg.net>

To: qrp-1@Lehigh.EDU
Subject: [13923] W7LS @ KC7LFX for FD on 160
Message-ID: <3594A99D.F04@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yo. We will be at our son Aaron's school FD station, KC7LFX. Will be running several antennas. I'm putting up a half wave end fed dipole for 160 meters. Yep. Got a balloon. Going to measure it with a laser rangefinder :-) Should be fun. Look for KC7LFX
73 de Jim, W7LS

Date: Sat, 27 Jun 1998 07:31:37 -0500 (EST)
From: bob evinger <revinger@marshallonline.com>
To: Jay Heffner <cjayheff@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [13924] Re: RS-232 cable (not qrp but....)
Message-ID: <Pine.LNX.3.96.980627072929.562A-100000@WD9EKA.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Jay,
Pk-232/Pk-900 RS-232 ports look like a modem. Wire the connectors "straight through" or wal-mart has cables probably actually cheaper than Radio Shack. That is where I typically purchased mine.

bob

Bob Evinger | 19250 N. Livingston Road | revinger@holli.com
WD9EKA | Marshall, IL 62441 |

On Fri, 26 Jun 1998, Jay Heffner wrote:

> Does anyone know what the wireing on the RS-232 cables should be for wireing the
pc up to a PK-232 TNC? I can't find any info. TNX in advance.
>
> 73/72,
> Craig, KF4NYZ
>

Date: Sat, 27 Jun 1998 09:52:17 -0400
From: "Ed Pacyna" <pacyna@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [13925] Re: linear
Message-ID: <000901bda1d2\$da668d80\$ed69440c@ed>

> Pat, you really don't need a "linear" for cw operation.
> Any Class C amplifier will do the job with higher efficiency.

The above statement is 100% correct (in general and in reply to the original post), however there is one situation where using another class of operation (e.g. AB or B) would be beneficial.

Class A amplifiers, where the amplifying device is forward biased (i.e. turned on) to a point where a large standing current is produced are the most linear of all amplifiers. However, this class consumes more power and generates more heat.

Class C amplifiers, where the amplifying device has no bias applied (or is reverse biased) and is turned off (i.e. no standing current) when not working. As a result, its operation is non-linear (suitable to amplify only CW, FM etc.).

What turns the class C amplifier on is the driving signal. For example, if a NPN transistor is used, it turns on only when its base has a higher voltage potential applied relative to its emitter. The base to emitter junction is actually a diode, so the potential difference needs to be about .7 V (or more) for the transistor to produce output.

For example you have a 100 mW transmitter that you want to build an amplifier to build it up to 5 W. You determine that the needed gain is $5/.1 = 50$ or 17dB. Pick an appropriate transistor, build the amplifier and it produces only a couple of watts of output power. What is happening is that some of the drive voltage is being used to just turn on the amplifier.

There are several solutions.

Bias the final transistor to class B, where enough forward bias is applied to put the amplifier at an operating point at the threshold of turn on. Or use a class AB amplifier (between class A and B), where the forward bias applied has turned on the amplifier and is producing small amount of standing current.

This explains something most of us have seen observed and tried to fix (often the wrong way).

Best Regards,

Ed, W1AAZ

Date: Sat, 27 Jun 1998 09:45:33 -0500
From: Bob Liesenfeld <wb0poq@visi.com>
To: QRP-L reflector <qrp-l@Lehigh.EDU>
Subject: [13926] "A" core?
Message-ID: <3595058D.6E07DDBD@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi gang,

What is the difference between a T68-2 core and a T68-2A?
Have a happy field day!

--

Genuine E-mail From the Land of the Everlasting Icicle...
Bob Liesenfeld
wb0poq@visi.com

Date: Sat, 27 Jun 1998 10:21:32 -0500
From: n5inz@juno.com (John M Andrews)
To: jjmcd@mdn.net
Cc: qrp-l@Lehigh.EDU
Subject: [13927] Re: RS-232 cable (not qrp but....)
Message-ID: <19980627.102133.3390.0.N5INZ@juno.com>

On Fri, 26 Jun 1998 22:44:23 -0400 "John J. McDonough" <jjmcd@mdn.net>
writes:

>> From: Jay Heffner <cjayheff@erols.com>; owner-qrp-l@Lehigh.EDU

>>

> The only relevant lines

>(almost ever) are:

>

Danger, Will Robinson!

While I'm sure all the postings on this thread are correct, the manual
for the PK-232(which I can't find right at the moment), is very specific

about which pins are actually used. It infers that damage may result if not pinned correctly. It also states that a standard modem cable should NOT be used.

Perhaps someone has the manual handy and can post.

No beef....just hate to see anyone damage a nice piece of gear.

72, John- N5INZ

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Date: Sat, 27 Jun 1998 10:20:03 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: revinger@marshallonline.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [13928] Re: RS-232 cable (not qrp but....)
Message-ID: <35950DA3.EC2E42EE@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The PK-232MBX serial port is "similar" to a modem serial port but beware on one point:

The AEA PK232-MBX uses several of the serial port connector pins in a completely non-standard manner to provide an interface for a printer, using a special split cable: one connector to the computer serial port and the other to a printer. You must be sure that connection is made ONLY to these pins:

1 through 8 and 20

The others are used for the printer interface. Failure to heed this may result in damage to your 232, per the AEA documentation. In particular, note that +5 volts from the 232 internal supply appears on Pin 25.

I used a standard cable, but clipped at one end all of the wires except those named above.

--

72/73, George

Amateur Radio W5YR, 52 years and counting!

QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403

AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

bob evinger wrote:

>

> Jay,

> Pk-232/Pk-900 RS-232 ports look like a modem. Wire the connectors

> "straight through" or wal-mart has cables probably actually cheaper

> than Radio Shack. That is where I typically purchased mine.

>

Date: Sat, 27 Jun 1998 09:15:53 -0700

From: Vic Rosenthal <rakefet@rakefet.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [13929] Central CA QRPicnic in 2 weeks

Message-ID: <35951AB9.A7B26CD@rakefet.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Just a reminder that the Central CA QRPicnic will be in two weeks. Let me know if you are coming (if you haven't already done so), because Bill Jones has generously offered to bring meat for the BBQ and we need to tell him how much. Here's the announcement:

The first annual Central California QRPicnic will be held at Woodward Park in Fresno

on Sunday, July 12 at 3 pm. The picnic will be at the River View picnic area (tables

1 and 2). Please bring:

1) XYL and kids

2) Antennas, radios, etc.

3) \$2.00 to pay for entrance to the park (sorry)

4) Food. Please let me know if you're interested in bringing some extra to share, and I'll coordinate.

There is lots of room for antennas -- trees, etc.

Vic, K2VCO

Fresno CA

209.226.4978

Date: Sat, 27 Jun 1998 12:56:00 -0400
From: mike czuhajewski <wa8mcq@abs.net>
To: QRP forum <qrp-l@Lehigh.EDU>
Cc: Mike Czuhajewski <wa8mcq@abs.net>, Mike Czuhajewski <mzczuhajewski@evi-inc.com>
Subject: [13930] Re AADE filter software
Message-ID: <35952420.363B@abs.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Neil of AADE recently mentioned the AADE filter software, found at <http://www.aade.com/filter.htm>, and which is said to be a fully functional eval copy available which will only run ten times (at which point you can delete it or send them money for an unlock code to revive it).

I downloaded it from their site and played with it a bit. Initial reaction is a bit mixed; has its good and bad points, but then so does anything. And part of that is that it lacks certain features of the FDS/GPLA combo that I have grown accustomed to, the lack of which wouldn't even be noticed by someone else. Definitely has some distinct advantages over the combination, though. And having both design and analysis in one program is nice, not having to toggle back and forth between two programs--and writing down values from one and typing them into the other!

One distinct bummer I've run into with the eval copy--it's limited to running ten times before it locks up, which--in theory--gives you enough time to fully evaluate it and make a decision whether to buy. I have no problem with that, and it's much better than "hobbleware". (That's an eval copy of a program that has certain key features locked out and simply not available unless you buy the full version.)

However, there is one flaw in that theory of ten trial runs: I have already encountered a runtime error twice, and each one, naturally, terminated the program, forcing me to start it up again--and that cost me two trials right there! And I may run into more when I try it again. All I can say is be careful to not get any runtime errors, and the problem is that there's no way to know what sort of things will cause them :-). But considering the very reasonable price, I'll be comfortable with making a "buy" decision even if I don't get the full number of trial runs.

Usual disclaimers, no relation to the person or company, don't even own any products, yada yada yada....

--

73 and Queue Our Pea de WA8MCQ wa8mcq@abs.net

Date: Sat, 27 Jun 1998 13:18:52 -0400
From: Alan Lake <RadKit@compuserve.com>
To: Unknown <qrp-1@Lehigh.EDU>
Subject: [13931] Wireless World
Message-ID: <199806271319_MC2-517E-7C84@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

I have eight bound volumes of Wireless World for sale.

Volume Nos. 16 to 23 (inclusive) covering the period 11 February 1925 to =
26
December 1928.

They are all in the original red cloth bindings and are in good / very go=
od
condition.

Price GBP 460.00 plus carriage at cost. (They are heavy!)

Alan Lake, G4DVW

Date: Sat, 27 Jun 1998 17:33:18 -0600
From: radioray@juno.com (Raymond E Tougas)
To: qrp-1@Lehigh.EDU
Subject: [13932] Sierra Mods?
Message-ID: <19980627.175732.9534.2.radioray@juno.com>

Hi All,

I've seen reference to power and other mods for the Wilderness
Sierra. Is there a compiled list? Can someone who knows some
of the mods send them to me? I love the Sierra, but a little
more RF out the BNC would help me when I'm operatin from
hotels in some of the bizarre places that I work.

>Thanks

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Date: Sat, 27 Jun 1998 17:36:35 -0600
From: radioray@juno.com (Raymond E Tougas)
To: qrp-l@Lehigh.EDU
Subject: [13933] Reciprocal in Japan?
Message-ID: <19980627.175732.9534.3.radioray@juno.com>

Hi QRP'ers,

I'm off on another trip to Asia, and have given-up on getting my ham license in Thailand. I can't seem to reach the right people BUT- I'm going to norther Japan in August, and would like to see if anyone out there knows who to contact regarding reciprocal licensing in Japan? I'm always on the 7th floor of the hotel, and have a openable outside window, so antennas are simple!

Thanks in Advance,

Radio-Ray - The Robot Doctor of Borneo

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 27 Jun 1998 13:18:18
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [13934] SW40+ on 6V
Message-ID: <3.0.3.16.19980627131818.2be77762@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy,

Got the Tx part of the SW40+ built and running on 6 volts. Best I can do is about 1.3 Watts, as shown by the Radio Shack digital power meter. At 6.5 volts we get 1.6 watts and at 7.0 volts we get 1.9 watts. I haven't measured the current yet, but looks like efficiency is down quite a bit at 6 volts.

I built mine up from a bare board with parts on hand so isn't quite a stock unit. The PA is a 2SC2075 and the drivers are 2N5088's. The driver transformer is small balun core (BN43-2404) with 7T pri and 1 T sec. L2 was changed to a transformer with 2 T pri and 6 T secondary. The polarity protection diode was removed and R19 jumpered. R26 was changed to 1K.

The real challenge will be rebiasing the op amp reference voltage. I'm also afraid that the jfet audio mute might not be effective with the reduced voltage available to turn it off. I'm planning on adding a MC34119 audio amp to make up for the fact the op amp's won't have enough swing to drive headphones anymore at 6 volts.

Your mileage may vary and any mods are done at your own risk.

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sat, 27 Jun 1998 15:07:54 EDT
From: AA3BP@aol.com
To: qrp-1@Lehigh.EDU
Subject: [13935] GM-10 Owners
Message-ID: <2c42a5ce.3595430b@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

My recently completed GM-10 seems to work per specs except for the RF power output which is only .75 watt at 13.6 vdc. This is only 50% of the rated 1.5 watts. (Measurements per OHR-WM2).

Would be interested in other's experience with Pwr out. (And, yes, I know that the difference between .75 and 1.5W is only 3db or 1/2 an S unit, but)

Per the QRPP article on turbocharging the GM-10, I did do the mod re: getting two peaks on the TX adjustments. Beyond this, I'm not inclined to do the other extensive mods -- just looking for the max that the stock version is designed for.

Any comparisons/suggestions appreciated as always!

Jim, AA3BP

Date: Sat, 27 Jun 1998 14:33:59 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [13936] Mipela go long biktaim wakabout . . . another momentary disappearance
Message-ID: <19980627.143402.6510.0.nilsbull@juno.com>

Yupela wantok!

The youngest & I are going off to Sprout camp again, this time just at the final gasps of FD98. So I'm suspending the list until we get back.

But we won't get back until the saucers & alien devil-aguas have landed, plundered & departed, 'cause I'm gonna be sittin' on the beach in South Caroline, sippin' from the Fightin' Fifth when those pesky aliens (and you think FD mosquitos are bad?) arrive.

And the person who takes my place as a I waft away on "Bob's" Saucher of Luv may well be as crazy, but it will not be me! Yeeeehah! Broccoli! Rolly-poly! Polygluttony! Reed-ducks!

I may find time between the Rupture & the final departure of the mutant Fish-head Lizard Boys from Venus to play radio. Either that or I'll leave the travel radio box at home and spend the free time writing. Or something.

So . . . until we get back from the walk-about, remember: "The future will be just like today, only different!"

73
Nils

Nils R. Bull Young
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch

WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.geocities.com/Athens/Olympus/9172>

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End of QRP-L Digest 1135

